Parcel B Supplemental Site Investigation Addendum

Boeing Realty Corporation C-6 Facility

Los Angeles California

April 1999

Prepared by Integrated Environmental Services, Inc.

For Boeing Realty Corporation

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ADDENDUM PARCEL B SUPPLEMENTAL SITE INVESTIGATION – BUILDING 4

This report is an addendum to the Parcel B Supplemental Site Investigation (SSI) report prepared in July 1998 by Integrated Environmental Services, Inc. for the Boeing C-6 facility in Los Angeles, California (IESI 1998). This addendum presents the investigation activities and findings pertaining to Building 4, in Area of Interest (AOI) 4, as defined in the SSI report. As discussed in that report, Building 4 was in use as the main power source for the C-6 facility and could not be investigated when the Parcel B SSI was conducted in May 1998. The sampling at Building 4 was conducted in March 1999 immediately after its demolition that month.

The Building 4 investigation followed the objectives, approach, and methods instituted for the main SSI. For program details, please refer to the SSI report (IESI 1998).

DESCRIPTION

Building 4 was a 3,000-square-foot structure constructed by Douglas Aircraft Company (DAC) in the 1950s to house electrical equipment. A room in the eastern portion of the building was used for battery storage and charging operations (K/J 1996c). The room contained sixty 2-volt batteries, which were removed as the building was dismantled. Building 4 was the last structure removed from Parcel B since site power had to be rerouted before demolition.

According to plant layout maps from 1943 to 1948 and aerial photographs, three 8,000-gallon aboveground transformer oil storage tanks were located in the western portion of the Building 4 footprint and spill-containment berm, measuring approximately 50 by 50 feet enclosed the tank area. The tanks were removed sometime in 1952 or 1953, during construction of the southern parking lot.

A complete description of Building 4 is presented in the SSI report.



INVESTIGATION PROGRAM

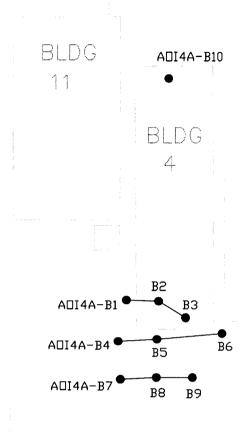
During the investigation, ten borings to depths between 5 and 15 feet below ground surface (bgs) were advanced: one on the east side of Building 4, a former battery storage area, and nine on the west side of the building, a former aboveground storage tank area (containing transformer oil).

The single boring on the east side of the building was advanced to 15 feet bgs with soil samples collected at 1, 5, 10, and 15 feet bgs. The samples were submitted to the laboratory for metals and pH analysis to assess potential impacts to soil from the battery storage activities.

Each of the nine borings on the west side of the building were advanced to 5 feet bgs, with soil samples collected at 1 and 5 feet below the <u>native</u> soil surface. Due to the presence of a 1- to 3-foot layer of fill soil placed over this area after the removal of the tanks, the first soil sample at each boring was collected 1 foot below where the native soil is encountered.

In addition to the individual (discrete) samples collected at each specified depth in the nine borings, composite soil samples were prepared by combining soil from the three locations shown in Figure 1. Samples were collected at 1 and 5 feet bgs, for a total of six composite samples. The soil samples from this area were analyzed for PCBs to assess potential impacts to soil from the former transformer oil tanks. The composite samples and three discrete samples (one from each row of samples, two from 1 foot bgs, and one from 5 feet bgs) were submitted to the laboratory for analysis. The remaining discrete samples were submitted to the laboratory but <u>placed on hold</u> until the results of the composite samples were evaluated. Since no PCBs were detected in any of the composite samples, none of the associated discrete samples were analyzed.

Table A-1 summarizes the soil sampling program for Building 4.

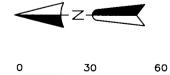


BLDG 13

> BLDG 14

Legend

AOI4A Sample Location
Composite Samples
Demolished Building



FEET



TITLE:		
Building	4 Sample	Locations
AOI4A		
Boeing C	-6 Facility	,
Los Ange	eles. CA	



TABLE A-1 SOIL SAMPLING PROGRAM FOR BUILDING 4 (AOI4)

Building 4 Location	No. of Borings	No. of Composite Sample Locations & Depths ^(a)	No. of Composite Samples Analyzed	No. of Discrete Sample Locations & Depths	No. of Discrete Samples Analyzed	Chemical Analyses
Northeast Section – Battery Room	1	NA	NA	l at 1, 5, 10, & 15 ft	4	Metals and pH
West Side – Former Transformer Tank Area	9	3 at 1 & 5 ft ^(b)	6	9 at 1 & 5 ft ^(b)	3	PCBs

NA = Not applicable

PCBs = Polychlorinated biphenyls

Notes

SOIL SAMPLING

Field activities began with the selection of sampling locations for surface soils and a geophysical survey at locations of subsurface investigation. Sampling locations in the west side of the building were originally determined by a square grid pattern. However, the presence of underground debris and pipes necessitated the relocation of two of the samples. The final soil sampling locations are shown in Figure A-1.

Subsurface soils were sampled using direct-push drilling methods. The push technology uses a truck-mounted, hydraulically driven sampler that allows penetration and standard sampling while minimizing generation of drill cuttings. The sampler for the push tool was fitted with 2-footlong, 1-inch-diameter Tenite sleeves if a contact depth between native and fill material had to be determined. When collecting samples, the push tool was fitted with four 6-inch stainless steel rings. Minimal cuttings were generated using this equipment. The boreholes were backfilled with a cement-bentonite grout. To minimize cross-contamination, the sampling equipment was decontaminated prior to each sample collection. As stated, ten borings were advanced in the Building 4 area.

a) Six composite samples were collected by combining soil collected at each depth from each row (north-south) of borings (see Figure 1). For example, composite sample AOI4A-C1 consists of soil collected at 1 foot below native soil surface from borings B1, B2, and B3.

b) Soil samples were collected at 1 and 5 feet below the contract between native and fill soils.



Sample handling procedures followed the approved SSI regime. Borehole soil samples were collected in stainless-steel liners with Teflon sheets and capped at each end. Each sample container was labeled and temporarily stored in an ice-filled cooler. The field supervisor maintained custody until the samples were transferred to the laboratory. Custody was documented on standard chain-of-custody forms, which are included with the laboratory reports at the end of this addendum.

SAMPLE ANALYTICAL PROGRAM

As during the SSI, analytical work was conducted by Orange Coast Analytical, Inc. in Tustin, California. The laboratory is California-certified in the use of standard U.S. Environmental Protection Agency test methods and appropriate state-required modifications. As described in the SSI report, analytical methods were selected for constituents of potential concern based on historical uses of the property. The analytical methods selected and the number of samples analyzed are detailed in Table A-2.

TABLE A-2
ANALYTICAL METHODS AND NUMBER OF SAMPLES ANALYZED

Building 4 Location	No. of Samples Analyzed	PCBs (8080)	pH (9045)	Metals (6010, 7196, 7471)
East side – Battery room	4	0	4	4
West side – Transformer oil tanks	9	9	0	0

PCBs = Polychlorinated biphenyls

SITE INVESTIGATION FINDINGS

As discussed in the SSI report, the analytical results were compared to a set of health-based remediation goals (HBRGs) developed for the site as part of a self-imposed program to identify AOIs. The HBRGs have been used for screening purposes during demolition to enhance the effectiveness of field activities.



Four samples were collected from the one boring advanced in the on the east side of the building, in the previous location of a battery room. These samples were submitted for metals and pH analysis. The laboratory results are included at the end of this addendum. The maximum concentration of each detected constituent is presented in the Table A-3.

TABLE A-3 SUMMARY OF CONSTITUENTS DETECTED IN SOIL, BATTERY ROOM

Constituent	Maximum Detection (mg/kg)	HBRG (mg/kg)
arsenic	6.3	14
barium	180	2520
beryllium	0.71	15.6
cadmium	0.21	16.4
chromium-total	25	97.3
cobalt	12	20
copper	42	1260
lead	6.5	111
nickel	22	239
vanadium	55	84
zinc	83	8730

HBRG = Health-based remediation goal

None of the detections exceeded the HBRGs established for the site. The pH analysis resulted in a pH range of 8.2 to 8.9.

In the west side of the building, borings were push sampled using clear 2-foot Tenite sleeves to identify the contact between fill material and native soil. Native soils were encountered from 4.0 to 7.5 feet bgs. Once the contact depth was determined, soil samples were collected using the stainless steel sleeves. All samples were analyzed for PCBs. The results of the analysis indicate that none of the samples contained PCBs above the detection limits. The laboratory results are presented at the end of this addendum.



QUALITY ASSURANCE/QUALITY CONTROL RESULTS

One equipment rinsate and one duplicate soil sample were collected as part of the quality assurance and quality control (QA/QC) sampling protocol described in the SSI report. The rinsate sample was collected by pouring distilled water over and through the sample collection equipment after the equipment's final decontamination rinse. The sample was analyzed for PCBs, metals, and pH. No PCBs were detected in the rinsate sample, and metals and were within background range. The results of the rinsate analysis are presented at the end of this addendum.

The field duplicate sample was collected at boring AOI4A-B10 from the sample sleeve directly below the original sample collected at 15 feet bgs. The field duplicate and its associated routine (original) sample were collected using the same sampling method. The analytical results of the duplicate sample and its associated routine sample indicate good correlation. The results are presented in the laboratory reports at the end of this addendum.

CONCLUSIONS

The Building 4 investigation was conducted following the objectives, approach, and methods established for the main SSI as described in the SSI report (IESI 1998) The data generated during this investigation will support future site remediation, feasibility studies, groundwater investigations, and risk assessment, should such actions become necessary.

None of the Building 4 soils were found to contain constituents of potential concern at levels that warrant remediation. Furthermore, the pH range of 8.2 to 8.9 in the former battery room location indicates no battery acid contamination has occurred.





LABORATORY REPORTS

LABORATORY REPORT FORM

Laboratory Name:

ORANGE COAST ANALYTICAL, INC.

Address:

3002 Dow Suite 532 Tustin, CA 92780

Telephone:

(714) 832-0064

Laboratory Certification

(ELAP) No.:

<u>1416</u>

Expiration Date:

2001

Laboratory Director's Name (Print):

Mark Noorani

Mark Morrain

Client:

Integrated Environmental

Project No.:

Project Name:

Bldg 4, AOI4, BRC

Laboratory Reference: <u>IES 10821</u>

Analytical Method: Metals, pH, PCB's

Date Sampled:

03/31/99

Date Received:

03/31/99

Date Reported:

04/01/99

Sample Matrix:

Soil & Water

Chain of Custody Received: Yes

Laboratory Director's Signature: 4

Ms. Joann Ornelas

3990 Westerly Pl. Suite 210 Newport Beach, CA 92660

Client Project #:

Sample Description: Soil, AOI4A-B2-1-5.5

Laboratory Sample #: 99030257 Laboratory Reference #: IES 10821 Sampled:

Client Project ID: Bldg 4, AOI4, BRC

03/31/99

Received: Analyzed: 03/31/99 04/01/99

Reported:

04/01/99

POLYCHLORINATED BIPHENYL'S (EPA 8080)

ANALYTE	CAS NUMBER	DETECTION LIMIT µg/kg	SAMPLE RESULTS μg/kg
PCB-1016	12674-11-2	20	N.D.
PCB-1221	111104-28-2	20	N.D.
PCB-1232	11141-16-5	20	N.D.
PCB-1242	53469-21-9	20	N.D.
PCB-1248	12672-29-6	20	N.D.
PCB-1254	11097-69-1	20	N.D.
PCB-1260	11096-82-5	20	N.D.

Ms. Joann Ornelas 3990 Westerly PI. Suite 210 Newport Beach, CA 92660

Client Project #:

Client Project ID: Bldg 4, AOI4, BRC

Sampled: Received: 03/31/99 03/31/99

Sample Description: Soil, AOI4A-B5-2-9.5 Laboratory Sample #: 99030258

Analyzed:

04/01/99

Laboratory Reference #: IES 10821

Reported:

04/01/99

POLYCHLORINATED BIPHENYL'S (EPA 8080)

ANALYTE	CAS NUMBER	DETECTION LIMIT μg/kg	SAMPLE RESULTS μg/kg
PCB-1016	12674-11-2	20	N.D.
PCB-1221	111104-28-2	20	N.D.
PCB-1232	11141-16-5	20	N.D.
PCB-1242	53469-21-9	20	N.D.
PCB-1248	12672-29-6	20	N.D.
PCB-1254	11097-69-1	20	N.D.
PCB-1260	11096-82-5	20	N.D.

Ms. Joann Ornelas 3990 Westerly PI. Suite 210

Newport Beach, CA 92660

Client Project ID: Bldg 4, AOI4, BRC

Client Project #:

Sampled:

03/31/99

Sample Description: Soil, AOI4A-B8-1-5.5

Received: Analyzed: 03/31/99 04/01/99

Laboratory Sample #: 99030259 Laboratory Reference #: IES 10821

Reported:

04/01/99

POLYCHLORINATED BIPHENYL'S (EPA 8080)

ANALYTE	CAS NUMBER	DETECTION LIMIT µg/kg	SAMPLE RESULTS μg/kg
PCB-1016	12674-11-2	20	N.D.
PCB-1221	111104-28-2	20	N.D.
PCB-1232	11141-16-5	20	N.D.
PCB-1242	53469-21-9	20	N.D.
PCB-1248	12672-29-6	20	N.D.
PCB-1254	11097-69-1	20	N.D.
PCB-1260	11096-82-5	20	N.D.

Ms. Joann Ornelas 3990 Westerly Pl. Suite 210

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Client Project ID: Bldg 4, AOI4, BRC

Client Project #:

Sampled: Received: 03/31/99

Sample Description: Water, AOI4A-Rinsate-1 Laboratory Sample #: 99030260

Analyzed:

03/31/99 04/01/99

Laboratory Reference #: IES 10821

Reported:

04/01/99

POLYCHLORINATED BIPHENYL'S (EPA 8080)

ANALYTE	CAS NUMBER	DETECTION LIMIT μg/l	SAMPLE RESULTS μg/l
PCB-1016	12674-11-2	5.0	N.D.
PCB-1221	111104-28-2	5.0	N.D.
PCB-1232	11141-16-5	5.0	N.D.
PCB-1242	53469-21-9	5.0	N.D.
PCB-1248	12672-29-6	5.0	N.D.
PCB-1254	11097-69-1	5.0	N.D.
PCB-1260	11096-82-5	5.0	N.D.

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Client Project ID: Bldg 4, AOI4, BRC

Client Project #:

Sampled:

03/31/99

Sample Description: Soil, AOI4A-C1/B1,2,3-1-1 Laboratory Sample #: 99030261

Received:

03/31/99

Analyzed:

04/01/99

Laboratory Reference #: IES 10821

Reported:

04/01/99

POLYCHLORINATED BIPHENYL'S (EPA 8080)

ANALYTE	CAS NUMBER	DETECTION LIMIT μg/kg	SAMPLE RESULTS μg/kg
PCB-1016	12674-11-2	20	N.D.
PCB-1221	111104-28-2	20	N.D.
PCB-1232	11141-16-5	20	N.D.
PCB-1242	53469-21-9	20	N.D.
PCB-1248	12672-29-6	20	N.D.
PCB-1254	11097-69-1	20	N.D.
PCB-1260	11096-82-5	20	N.D.

Ms. Joann Ornelas

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Client Project ID: Bldg 4, AOI4, BRC

Client Project #:

Sampled:

03/31/99

Sample Description: Soil, AOI4A-C2/B1,2,3-2-5

Laboratory Sample #: 99030262

Laboratory Reference #: IES 10821

Received:

Analyzed:

03/31/99 04/01/99

Reported:

04/01/99

POLYCHLORINATED BIPHENYL'S (EPA 8080)

ANALYTE	CAS NUMBER	DETECTION LIMIT μg/kg	SAMPLE RESULTS μg/kg
PCB-1016	12674-11-2	20	N.D.
PCB-1221	111104-28-2	20	N.D.
PCB-1232	11141-16-5	20	N.D.
PCB-1242	53469-21-9	20	N.D.
PCB-1248	12672-29-6	20	N.D.
PCB-1254	11097-69-1	20	N.D.
PCB-1260	11096-82-5	20	N.D.

Ms. Joann Ornelas 3990 Westerly Pl. Suite 210 Newport Beach, CA 92660

Client Project ID: Bldg 4, AOI4, BRC

Client Project #:

Sampled:

03/31/99

Sample Description: Soil, AOI4A-C3/B4,5,6-1-1 Laboratory Sample #: 99030263

Received:

03/31/99

Analyzed:

04/01/99

Laboratory Reference #: IES 10821

Reported:

04/01/99

POLYCHLORINATED BIPHENYL'S (EPA 8080)

ANALYTE	CAS NUMBER	DETECTION LIMIT μg/kg	SAMPLE RESULTS μg/kg
PCB-1016	12674-11-2	20	N.D.
PCB-1221	111104-28-2	20	N.D.
PCB-1232	11141-16-5	20	N.D.
PCB-1242	53469-21-9	20	N.D.
PCB-1248	12672-29-6	20	N.D.
PCB-1254	11097-69-1	20	N.D.
PCB-1260	11096-82-5	20	N.D.

Ms. Joann Ornelas 3990 Westerly Pl. Suite 210 Newport Beach, CA 92660

Client Project ID: Bldg 4, AOI4, BRC

Client Project #:

Sampled:

03/31/99

Sample Description: Soil, AOI4A-C4/B4,5,6-2-5

Received:

03/31/99 04/01/99

Laboratory Sample #: 99030264 Laboratory Reference #: IES 10821

Analyzed:

Reported: 04/01/99

POLYCHLORINATED BIPHENYL'S (EPA 8080)

ANALYTE	CAS NUMBER	DETECTION LIMIT µg/kg	SAMPLE RESULTS μg/kg
PCB-1016	12674-11-2	20	N.D.
PCB-1221	111104-28-2	20	N.D.
PCB-1232	11141-16-5	20	N.D.
PCB-1242	53469-21-9	20	N.D.
PCB-1248	12672-29-6	20	N.D.
PCB-1254	11097-69-1	20	N.D.
PCB-1260	11096-82-5	20	N.D.

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Client Project ID: Bldg 4, AOI4, BRC

Client Project #:

Sampled:

03/31/99

Sample Description: Soil, AOI4A-C5/B7,8,9-1-1

Received:

03/31/99

Laboratory Sample #: 99030265

Analyzed:

04/01/99

Laboratory Reference #: IES 10821

Reported:

04/01/99

POLYCHLORINATED BIPHENYL'S (EPA 8080)

ANALYTE	CAS NUMBER	DETECTION LIMIT µg/kg	SAMPLE RESULTS μg/kg
PCB-1016	12674-11-2	20	N.D.
PCB-1221	111104-28-2	20	N.D.
PCB-1232	11141-16-5	20	N.D.
PCB-1242	53469-21-9	20	N.D.
PCB-1248	12672-29-6	20	N.D.
PCB-1254	11097-69-1	20	N.D.
PCB-1260	11096-82-5	20	N.D.

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Client Project ID: Bldg 4, AOI4, BRC

Client Project #:

Sampled:

03/31/99

Sample Description: Soil, AOI4A-C6/B7,8,9-2-5 Laboratory Sample #: 99030266

Received:

03/31/99

Laboratory Reference #: IES 10821

Analyzed:

Reported:

04/01/99 04/01/99

POLYCHI ORINATED RIPHENYI 'S (EPA 8080)

ANALYTE	ED BIPHENYL'S (EPA) CAS NUMBER	DETECTION LIMIT µg/kg	SAMPLE RESULTS μg/kg	
PCB-1016	12674-11-2	20	N.D.	
PCB-1221	111104-28-2	20	N.D.	
PCB-1232	11141-16-5	20	N.D.	
PCB-1242	53469-21-9	20	N.D.	
PCB-1248	12672-29-6	20	N.D.	
PCB-1254	11097-69-1	20	N.D.	
PCB-1260	11096-82-5	20	N.D.	

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Client Project ID: Bldg 4, AOI4, BRC Client Project #:

Sampled:

03/31/99

Sample Description: Soil, AOI4A-B10-1-0.5 Laboratory Sample #: 99030252

Received: Analyzed:

03/31/99

04/01/99

Laboratory Reference #: IES 10821

Reported:

04/01/99

CCR - METALS

ANALYTE	EPA METHOD	DETECTION LIMIT mg/kg	SAMPLE RESULTS mg/kg
Antimony	6010	5.0	N.D.
Arsenic	6010	1.0	3.8
Barium	6010	0.5	180
Beryllium	6010	0.5	0.69
Cadmium	6010	0.5	0.21
Chromium (Total)	6010	0.5	22
Chromium (VI)	7196	0.5	N.D.
Cobalt	6010	0.5	9.5
Copper	6010	0.5	23
Lead	6010	1.0	5.7
Mercury	7471	0.1	N.D.
Molybdenum	6010	1.0	N.D.
Nickel	6010	0.5	22
Selenium	6010	5.0	N.D.
Silver	6010	0.5	N.D.
Thallium	6010	5.0	N.D.
Vanadium	6010	0.5	43
Zinc	6010	0.5	49

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Sample Description: Soil, AOI4A-B10-2-5

Laboratory Sample #: 99030253 Laboratory Reference #: IES 10821 Client Project ID: Bldg 4, AOI4, BRC

Client Project #:

Sampled:

03/31/99

Received:

03/31/99

Analyzed:

04/01/99 04/01/99

Reported:

CCR - METALS

ANALYTE	EPA METHOD	DETECTION LIMIT mg/kg	SAMPLE RESULTS mg/kg
Antimony	6010	5.0	N.D.
Arsenic	6010	1.0	5.4
Barium	6010	0.5	160
Beryllium	6010	0.5	0.61
Cadmium	6010	0.5	N.D.
Chromium (Total)	6010	0.5	24
Chromium (VI)	7196	0.5	N.D.
Cobalt	6010	0.5	11
Copper	6010	0.5	32
Lead	6010	1.0	5.9
Mercury	7471	0.1	N.D.
Molybdenum	6010	1.0	N.D.
Nickel	6010	0.5	21
Selenium	6010	5.0	N.D.
Silver	6010	0.5	N.D.
Thallium	6010	5.0	N.D.
Vanadium	6010	0.5	51
Zinc	6010	0.5	63

Laboratory Sample #: 99030254 Laboratory Reference #: IES 10821

Sample Description: Soil, AOI4A-B10-3-10

Ms. Joann Ornelas 3990 Westerly Pl. Suite 210 Newport Beach, CA 92660

Client Project ID: Bldg 4, AOI4, BRC

Client Project #:

Sampled:

03/31/99

Received: Analyzed: 03/31/99 04/01/99

CCR - METALS

Reported:

04/01/99

ANALYTE	EPA METHOD	DETECTION LIMIT mg/kg	SAMPLE RESULTS mg/kg
Antimony	6010	5.0	N.D.
Arsenic	6010	1.0	6.3
Barium	6010	0.5	180
Beryllium	6010	0.5	0.68
Cadmium	6010	0.5	N.D.
Chromium (Total)	6010	0.5	25
Chromium (VI)	7196	0.5	N.D.
Cobalt	6010	0.5	12
Copper	6010	0.5	36
Lead	6010	1.0	6.5
Mercury	7471	0.1	N.D.
Molybdenum	6010	1.0	N.D.
Nickel	6010	0.5	21
Selenium	6010	5.0	N.D.
Silver	6010	0.5	N.D.
Thallium	6010	5.0	N.D.
Vanadium	6010	0.5	54
Zinc	6010	0.5	71

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Client Project ID: Bldg 4, AOI4, BRC

Client Project #:

Sampled:

03/31/99

Sample Description: Soil, AOI4A-B10-4-15D

Received: Analyzed: 03/31/99 04/01/99

Laboratory Sample #: 99030255 Laboratory Reference #: IES 10821

Reported:

04/01/99

CCR - METALS

ANALYTE	EPA METHOD	DETECTION LIMIT mg/kg	SAMPLE RESULTS mg/kg	
Antimony	6010	5.0	N.D.	
Arsenic	6010	1.0	4.1	
Barium	6010	0.5	170	
Beryllium	6010	0.5	0.67	
Cadmium	6010	0.5	N.D.	
Chromium (Total)	6010	0.5	23	
Chromium (VI)	7196	0.5	N.D.	
Cobalt	6010	0.5	12	
Copper	6010	0.5	32	
Lead	6010	1.0	6.2	
Mercury	7471	0.1	N.D.	
Molybdenum	6010	1.0	N.D.	
Nickel	6010	0.5	19	
Selenium	6010	5.0	N.D.	
Silver	6010	0.5	N.D.	
Thallium	6010	5.0	N.D.	
Vanadium	6010	0.5	55	
Zinc	6010	0.5	72	

Ms. Joann Ornelas 3990 Westerly Pl. Suite 210 Newport Beach, CA 92660

Client Project ID: Bldg 4, AOI4, BRC

Client Project #:

Sample Description: Soil, AOI4A-B10-4-15

Laboratory Sample #: 99030256 Laboratory Reference #: IES 10821

Sampled: 03/31/99 Received: 03/31/99 Analyzed: 04/01/99 Reported: 04/01/99

CCR - METALS

ANALYTE	EPA METHOD	DETECTION LIMIT mg/kg	SAMPLE RESULTS mg/kg
Antimony	6010	5.0	N.D.
Arsenic	6010	1.0	4.1
Barium	6010	0.5	160
Beryllium	6010	0.5	0.71
Cadmium	6010	0.5	N.D.
Chromium (Total)	6010	0.5	25
Chromium (VI)	7196	0.5	N.D.
Cobalt	6010	0.5	11
Copper	6010	0.5	42
Lead	6010	1.0	6.4
Mercury	7471	0.1	N.D.
Molybdenum	6010	1.0	N.D.
Nickel	6010	0.5	19
Selenium	6010	5.0	N.D.
Silver	6010	0.5	N.D.
Thallium	6010	5.0	N.D.
Vanadium	6010	0.5	54
Zinc	6010	0.5	78

Sample Description: Water, AOI4A-Rinsate-1

Ms. Joann Ornelas 3990 Westerly Pl. Suite 210 Newport Beach, CA 92660

Client Project #:

Client Project ID: Bldg 4, AOI4, BRC

Sampled:

03/31/99

Received:

03/31/99

Analyzed: 03/31-04/01/99

Reported:

04/01/99

Laboratory Sample #: 99030260 Laboratory Reference #: IES 10821

CCR - METALS

ANALYTE	EPA METHOD	DETECTION LIMIT	SAMPLE RESULTS
		mg/l	mg/l
			3 .
Antimony	6010	0.1	N.D.
Arsenic	6010	0.1	N.D.
Barium	6010	0.01	N.D.
Beryllium	6010	0.01	N.D.
Cadmium	6010	0.01	N.D.
Chromium (Total)	6010	0.01	N.D.
Chromium (VI)	7196	0.01	N.D.
Cobalt	6010	0.01	N.D.
Copper	6010	0.01	N.D.
Lead	6010	0.05	N.D.
Mercury	7471	0.002	N.D.
Molybdenum	6010	0.05	N.D.
Nickel	6010	0.01	N.D.
Selenium	6010	0.1	N.D.
Silver	6010	0.01	N.D.
Thallium	6010	0.1	N.D.
Vanadium	6010	0.01	N.D.
Zinc	6010	0.01	N.D.

Ms. Joann Ornelas 3990 Westerly PI. Suite 210 Newport Beach, CA 92660 Client Project ID: Bldg 4, AOI4, BRC

Client Project #:

Sampled:

03/31/99

Received:

03/31/99

Analyzed:

03/31/99

Reported:

04/01/99

Laboratory Reference #: IES 10821

Sample Description: Soil, Water

pH (EPA 9045)

LABORATORY SAMPLE NUMBER	CLIENT SAMPLE NUMBER	SAMPLE RESULTS
99030252	AOI4A-B10-1-0.5	8.2
99030253	AOI4A-B10-2-5	8.9
99030254	AOI4A-B10-3-10	8.9
99030255	AOI4A-B10-4-15D	8.7
99030256	AOI4A-B10-4-15	8.8
99030260	AOI4-Rinsate-1	8.4

Analysis: PCB 'S (EPA 8080)

Date of Analysis:04/1/99

Laboratory Sample No :99030257 Laboratory Reference No : IES 10821

Analyte	R1	SP	MS	MSD	PR1	PR2	RPD
	(ppb)	(ppb)	(ppb)	(ppb)	%	%	%
PCB-1260	0.0	250	160	150	64	60	6

Definition of Terms:

R1 Results Of First Analysis

SP Spike Concentration Added to Sample

MS Matrix Spike Results

MSD Matrix Spike Duplicate Results

PR1 Percent Recovery Of MS: {(MS-R1) / SP} x100

PR2 Percent Recovery Of MSD: {(MSD-R1) / SP} x 100

RPD Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

Analysis: PCB 'S (EPA 8080)

Date of Analysis:04/01/99

Laboratory Sample No :OCA 100 Laboratory Reference No : IES 10821

Analyte	R1	SP	MS	MSD	PR1	PR2	RPD
	(ppb)	(ppb)	(ppb)	(ppb)	%	%	%
PCB-1260	0.0	20	14	13	70	65	7

Definition of Terms:

R1

Results Of First Analysis

SP

Spike Concentration Added to Sample

MS

Matrix Spike Results

MSD

Matrix Spike Duplicate Results

PR1

Percent Recovery Of MS: {(MS-R1) / SP} x100

PR2

Percent Recovery Of MSD: {(MSD-R1) / SP} x 100

RPD

Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

Analysis: Metals

Date of Analysis: 04/01/99

Laboratory Sample No : 99030252, OCA200

Laboratory Reference No: IES 10821

Analyte	R1	SP	MS	MSD	PR1	PR2	RPD
	(ppm)	(ppm)	(ppm)	(ppm)	%	%	%
Antimony	0.00	10.0	9.48	9.60	95	96	1
Arsenic	0.08	10.0	9.90	9.93	98	99	0
Barium	3.67	5.00	8.44	8.39	95	94	1
Beryllium	0.01	1.00	1.07	1.06	106	105	1
Cadmium	0.00	1.00	1.04	1.04	104	104	0
Chromium (Total)	0.44	1.00	1.42	1.41	98	97	1
Chromium (VI)	0.0	5.0	4.6	4.3	92	86	7
Cobalt	0.19	1.00	1.16	1.16	97	97	0
Copper	0.47	1.00	1.54	1.55	107	108	1
Lead	0.11	5.00	4.64	4.65	91	91	0
Mercury	0.00	1.00	0.96	0.99	96	99	3
Molybdenum	0.00	5.00	4.95	4.96	99	99	0
Nickel	0.43	5.00	5.46	5.45	101	100	0
Selenium	0.00	10.0	9.88	9.95	99	100	1
Silver	0.00	5.00	5.21	5.21	104	104	0
Thallium	0.00	10.0	8.91	10.1	89	101	13
Vanadium	0.86	5.00	5.78	5.77	98	98	0
Zinc	0.99	1.00	1.94	1.93	95	94	1

Definition of Terms:

R1	Results	$\bigcap f$	Firet	Anal	veie
LZ I	Results	OI.	LIISI	Anar	y 515

SP Spike Concentration Added to Sample

MS Matrix Spike Results

MSD Matrix Spike Duplicate Results

PR1 Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2 Percent Recovery Of MSD: {(MSD-R1) / SP} x 100

RPD Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

Analysis: Metals

Date of Analysis: 03/31-04/01/99

Laboratory Sample No : 99030236, 99030229, 99030250

Laboratory Reference No : IES 10821

Analyte	R1	SP	MS	MSD	PR1	PR2	RPD
	(ppm)	(ppm)	(ppm)	(ppm)	%	%	%
Antimony	0.00	0.10	0.103	0.105	103	105	2
Arsenic	0.00	0.10	0.107	0.104	107	104	3
Barium	0.03	0.100	0.129	0.128	99	98	1
Beryllium	0.00	0.100	0.104	0.103	104	103	1
Cadmium	0.00	0.100	0.096	0.095	96	95	1
Chromium (Total)	0.00	0.100	0.103	0.101	103	101	2
Chromium (VI)	0.00	0.50	0.50	0.50	100	100	0
Cobalt	0.00	0.100	0.094	0.093	94	93	1
Copper	0.000	0.100	0.105	0.104	105	104	1
Lead	0.00	0.10	0.096	0.092	96	92	4
Mercury	0.000	0.010	0.010	0.010	98	99	1
Molybdenum	0.00	0.10	0.114	0.114	114	114	0
Nickel	0.00	0.100	0.093	0.092	93	92	1
Selenium	0.00	0.10	0.108	0.105	108	105	3
Silver	0.00	0.100	0.099	0.098	99	98	1
Thallium	0.00	0.10	0.102	0.103	102	103	1
Vanadium	0.00	0.100	0.107	0.106	107	106	1
Zinc	0.00	0.100	0.098	0.097	98	97	1

Definition of Terms:

Results Of First Analy	/sis
	Results Of First Analy

SP Spike Concentration Added to Sample

MS Matrix Spike Results

MSD Matrix Spike Duplicate Results

PR1 Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2 Percent Recovery Of MSD: {(MSD-R1) / SP} x 100

RPD Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

Analysis Request and Chain of Custody Record

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3002 Dow, Suite 532 Tustin, CA 92780 (714) 832-0064, Fax (714) 832-0067

4620 E. Elwood, Suite 4

Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

エス 24 REQUIRED TAT: _

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Lab Job No: _ Page_____

CUSTOMER INFORMATION		PROJECT INFORMATION	MATION	90	/ / / / / / / /	
COMPANY 11	DOD IECT MANGE				_	
COMMITTING LAWSON ASSOCIATES	VAME	8106 4, AOT	I4,8RC	❤:	<u> </u>	
SEND REPORT TO: A. OL nolas - IESI	NUMBER:			<u>ج</u> ج	~	
ADDRESS: 30 (Or P Park	LOCATION:			>	_ \	
Tryine CA	ADDRESS:			· ^ ~		
PHONE: FAX:	SAMPLED BY: V	Mathir		ͺ ε		
SAMPLE ID	NO. OF SAMPLE	SAMPLE	SAMPLE CONTAINER PRI TYPE	PRES. C. C. C.	HEMARKS/PRECAUTIONS	
AOI 4-810-1-0,5	1 3-31-99	0800	SOIL 6"BRYSS NE	New X X	Fox results to IEST	
40I4-810-2-5		0810		×		
AOI 4-810-3-10		2280		×		
A014-810-4-150		0878		×		
AOI4- B10-4-15		0831		×		
AOI4-81-1-7		0905			HOLD.	
4014-81-2-11		0912			HOLD	
ACI4-82-1-5.5		6927		×		
4014-82-2-8.5		0933			4010	
40I4-83-1-55		1008			Иото	
AOI4-83-2-9.5		1018			Ного	
4014-84-1-7		1035			НЭГО	
ACI4-84-2-11		1040			НОГО	
4014-85-1-5.5	>	1059	^ → →		Gron	
Total No. of Samples: 1 H	Me	Method of Shipment:				
Relinquished By: Date/Time:	Rec	Received By:	Date/Time:	lime:	Reporting Format: (check)	
When Mosther 3/31/9	99 16:25				NORMAL S.D. HMMD	
Relinquished By: Date/Time:	Re	Received By:	Date/Time:	rime:	RWQCB OTHER	
Relinquished By: Date/Time:	- R	Received For Lab By:		Date/Time: 3 -3 +7 1	Sample Integrity: (check)	
	0	1-10	Steel	13. 2	litact Office	

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pickup samples.

Analysis Request and Chain of Custody Record

ORANGE COAST ANALYTICAL, INC.

3002 Dow, Suite 532 Tustin, CA 92780 (714) 832-0064, Fax (714) 832-0067

4620 E. Elwood, Suite 4 Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

Lab Job No: Page_

HR

24

REQUIRED TAT:_

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						CONTAINER PRES.	1.5 " HAS NONE	_							→ →	* 1 POLY	JAR NONE	_		→	-	Date/Time:		Date/Time:	
PROJECT INFORMATION	ACT 4 BRC				THUR	SAMPLE CO MATRIX	7105				<u> </u>				\rightarrow	1 1	composite 4		3	>	oment:				
PROJECT	PROJECT NAME: R.L. D. G. 4. A	1			7. MA	SAMPLE SAMPLE DATE TIME	3-31-99 1106	1143	1148	1226	12:33	1246	1253	1312	1318	13:45	1008	1018	= +3	1148	Method of Shipment:	Received By:		Received By:	
	PROJECT NAM	NUMBER:	LOCATION:	ADDRESS:	SAMPLED BY:	NO. OF SAN CONTAINERS DI	1 3-3								->	3				→			(6:15		
CUSTOMER INFORMATION	LAIUSON	LAS - 1ES1	PARK	そう	FAX:	SAMPLEID	2-9.5	- 5	1-9	-8.5	2.21-	i-5,5	- 9,5	-5	-9	17E-1	3-1-1	181,2,3-2-5	1-1-9 3	56-2-5	14	Date/Time:	In. 3/31/99	Date/Time:	
CUSTOME	COMPANY. HARDING	SEND REPORT TO: J. CRAELA	ADDRESS: 3C CORP PA	IBVINE	PHONE:	SAME	ACI4-85-	AOI4-86-	A 0 I 4 - 86 - 3	ACT4-87-1	ACI4-87-2	4014-88-	10 I 4 -88-2	1014-89-1-5	ACI4-89-2-9	AOI4-RINSATE	AOI4-C1/81,2,3-1-	4014-C2/813	AOI4-C3/84, S. 6-1-	ADI4-C4/84,56-2-	Total No. of Samples:	Relinquished By:	Wen Wall	Relinquished By:	

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pickup samples.

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Sample Integrity: (check)

Date/Time:

intact

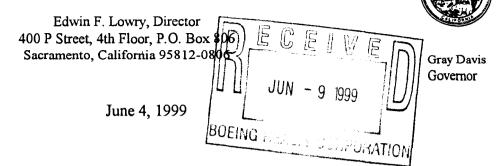
REMARKS/PRECAUTIONS ₽ S.D. HMMD OTHER Lab Job No: Page_ アコ (check) Reporting Format: (check) 74 Sample Integrity: NORMAL **RWQCB** intact REQUIRED TAT: 2 Poli Oods Analysis Request and Chain of Custody Record ANALYSIS/METHOD AEOUEST THOD Date/Time: 5-5+ 7 RA Vd3 76,25 **E**3 (602) 736-0960 Fax (602) 736-0970 Date/Time: Date/Time: NONE PRES. BRC CONTAINER TYPE 4 02, 4620 E. Elwood, Suite 4 Phoenix, AZ 85040 PROJECT INFORMATION AOT4 SAMPLE 7105 COWD. Received For Lab By: SAMPLED BY: V. MATHUR Method of Shipment: E 1318 PROJECT NAME: 8 L D G 4 3-31-99 1312 Received By: Received By: ORANGE COAST ANALYTICAL, INC. SAMPLE DATE 16.25 LOCATION: ADDRESS: 714) 832-0064, Fax (714) 832-0067 NUMBER: NO. OF CONTAINERS 3-31-00 Date/Time: Date/Time: Date/Time: 3002 Dow, Suite 532 SEND REPORT TO J. OR NELAS - IES 4014-66/878.9-2-5 Fustin, CA 92780 4A1450N **CUSTOMER INFORMATION** AOI4-C5/8789-1-PARK FAX: SAMPLE ID 0 COR P COMPANY. HARDING 12V/VE Total No. of Samples: Relinquished By: Relinquished By: Relinquished By: 30 ADDRESS: PHONE:

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pickup samples.



Winston H. Hickox Secretary for Environmental Protection

Department of Toxic Substances Control



Mr. S. Mario Stavale Boeing Realty Corporation 4060 Lakewood Boulevard, 6th Floor Long Beach, California 90808

Dear Mr. Stavale:

BOEING C-6 FACILITY, PARCEL B, LOS ANGELES, CALIFORNIA CONTRACT # 98-T1681

The Department of Toxic Substances Control (DTSC) has completed the review of the Parcel B Supplemental Site Investigation Report Addendum (April 16, 1999) prepared by Integrated Environmental Services, Inc. Attached are the comments by Dr. Yugal Luthra of the Human and Ecological Risk Division of DTSC. The report is acceptable to DTSC as submitted, and DTSC agrees with the conclusion of the report that there are no levels of contamination in the Building 4 area which would require remediation.

If you have any questions or comments, please contact me at (916) 327-2495.

Sincerely,

Deborah Oudiz, Ph.D.
Senior Toxicologist
Southern California Unit
Human and Ecological Piels

Human and Ecological Risk Division

el Quai

Enclosure

cc: Mr. Michael Young

Integrated Environmental Services, Inc.

3990 Westerly Place, Suite 210 Newport Beach, California 92660

California Environmental Protection Agency

Printed on Recycled Paper



Winston H. Hickox Secretary for Environmental Protection

Department of Toxic Substances Control

Edwin F. Lowry, Director 400 P Street, 4th Floor, P.O. Box 806 Sacramento, California 95812-0806



Gray Davis Governor

MEMORANDUM

TO:

Deborah Oudiz, PhD

Senior Toxicologist

Science, Pollution Prevention, and Technology Development

Human and Ecological Risk Division

FROM:

Yugal K. Luthra, PhD MRSC MIBiol

Staff Toxicologist

Science, Pollution Prevention, and Technology Development

Human and Ecological Risk Division (HERD)

DATE:

May 20, 1999

SUBJECT:

Boeing Realty Corporation, Parcel B (C6 Facility) Supplemental

Investigation Report (Addendum).

PCA Code:12185, Site Code:900138, Work Phase:00

BACKGROUND

In an earlier memorandum (March 9, 1999) issued by HERD, it was noted that the only remaining structure within Parcel B (Building 4) was due for demolition, and that after demolition the building footprints would be sampled for the presence of contaminants. The results of the analytical data were to be used to characterize risk from the contaminants within this area. Present comments relate to evaluating risk following the demolition, and sampling activities associated with building 4. Issues relating to potential groundwater contaminantion have not been addressed.

Building 4, a 3,000 square foot structure, used to house electric equipment, and was also used as a battery storage and recharge area.

California Environmental Protection Agency

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DOCUMENT(S) REVIEWED

Parcel B Supplemental Site Investigation Report Addendum. Boeing Reality Corporation C-6 Facility, Los Angeles. The report was prepared by Integrated Environmental Services Inc., Newport Beach, California, and dated April 16, 1999.

SCOPE OF REVIEW

The referenced document was reviewed for scientific and technical contents. Any grammatical or typographic errors, which did not affect the interpretation of results, were not noted. Site characterization data, when provided, are reviewed by HERD to examine their applicability to the risk assessment process. Therefore, it is assumed that verification and validation of data, for the extent and magnitude of contamination, have been been conducted by the appropriate staff in the Department.

GENERAL COMMENTS

The analytical results presented for metals (Table A-3), and in the "Laboratory Reports" Section of the report reveal no discrepancies for metals and PCBs. The PCB analytical results show that essentially the contaminant is below the limit of detection. For metals detected in the soil, the appropriate reference should be provided which substantiates the reported health based remediation goals (HBRGs) under non-residential scenario. On the basis of the condition that the metal HBRGs are correctly reported, and under non-residential land use scenario, HERD agrees with the conclusion that soil samples from building 4 did not contain levels of contaminants (metals and PCBs) to warrant remediation. HERD has also noted that the data generated during the investigation of Parcel B of the C6 facility will be used to support any future risk-based multimedia/multipathway remediation.

CONCLUSIONS

The information and data, under the stated condition above, and as presented in the supplemental site investigation report, for evaluating risk due to contamination of soil only, were adequately presented. The report is acceptable.

If you may have any questions, please, contact me at (916)327-2512.

bngC6b4.doc.hrz.20





INTEGRATED
Environmental Services, Inc.

April 20, 1999

S. Mario Stavale Boeing Realty Company 4060 Lakewood Boulevard, 6th Floor Long Beach, California 90808-1700

Subject: Boeing C-6, Parcel B, Los Angeles, CA

Dear Mario:

Enclosed please find the results from Orange Coast Analytical for the analyses of soil samples collected in Building 4, Parcel B of the Boeing C6 facility during the Parcel B Supplemental Site Investigation.

Integrated has reviewed the invoice to ensure billing is consistent with the contracted unit cost. All invoices are now sent directly from OCA to Boeing per Mila Ramsey's request. If you have questions concerning these invoices, please contact me at (714) 852-9050, extension 14.

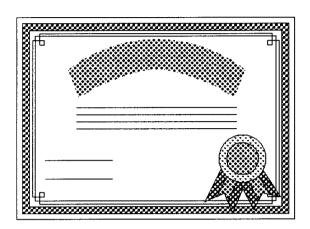
Sincerely.

Joann P. Ornelas Program Manager

Enclosure



3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067 4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970



ORANGE COAST ANALYTICAL THANKS YOU FOR YOUR BUSINESS

THE FOLLOWING PAGES ARE THE ANALYSIS REPORT

ON THE SAMPLES YOU REQUESTED.

IF YOU HAVE ANY QUESTIONS REGARDING THIS REPORT
PLEASE FEEL FREE TO CONTACT US.



3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067 4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

LABORATORY REPORT FORM

Laboratory Name: ORANGE COAST ANALYTICAL, INC.

Address: 3002 Dow Suite 532 Tustin, CA 92780

Telephone: (714) 832-0064

Laboratory Certification

(ELAP) No.: <u>1416</u> Expiration Date: <u>2001</u>

Laboratory Director's Name (Print): Mark Noorani

Client: <u>Integrated Environmental</u>

Project No.:

Project Name: Bldg 4, AOI4, BRC

Laboratory Reference: <u>IES 10821</u>

Analytical Method: Metals, pH, PCB's

 Date Sampled:
 03/31/99

 Date Received:
 03/31/99

 Date Reported:
 04/01/99

Sample Matrix:

Chain of Custody Received: Yes

Soil & Water

Laboratory Director's Signature: //ark Yavani

Ms. Joann Ornelas 3990 Westerly Pl. Suite 210 Newport Beach, CA 92660 Client Project ID: Bldg 4, AOI4, BRC

Client Project #:

 Sampled:
 03/31/99

 Received:
 03/31/99

 Analyzed:
 04/01/99

Sample Description: Soil, AOI4A-B2-1-5.5 Laboratory Sample #: 99030257 Laboratory Reference #: IES 10821

poratory Reference #: IES 10821 Reported: 04/01/99

POLYCHI ORINATED BIPHENYL'S (EPA 8080)

ANALYTE	CAS NUMBER	DETECTION LIMIT μg/kg	SAMPLE RESULTS μg/kg	
PCB-1016	12674-11-2	20	N.D.	
PCB-1221	111104-28-2	20	N.D.	
PCB-1232	11141-16-5	20	N.D.	
PCB-1242	53469-21-9	20	N.D.	
PCB-1248	12672-29-6	20	N.D.	
PCB-1254	11097-69-1	20	N.D.	
PCB-1260	11096-82-5	20	N.D.	

Ms. Joann Ornelas 3990 Westerly Pl. Suite 210 Newport Beach, CA 92660 Client Project ID: Bldg 4, AOI4, BRC

Client Project #:

Sampled:

03/31/99

Sample Description: Soil, AOI4A-B5-2-9.5

Received: Analyzed: 03/31/99

Laboratory Sample #: 99030258 Laboratory Reference #: IES 10821

Reported:

04/01/99 04/01/99

POLYCHLORINATED BIPHENYL'S (EPA 8080)

ANALYTE	CAS NUMBER	DETECTION LIMIT µg/kg	SAMPLE RESULTS μg/kg	-
PCB-1016	12674-11-2	20	N.D.	
PCB-1221	111104-28-2	20	N.D.	
PCB-1232	11141-16-5	20	N.D.	
PCB-1242	53469-21-9	20	N.D.	
PCB-1248	12672-29-6	20	N.D.	
PCB-1254	11097-69-1	20	N.D.	
PCB-1260	11096-82-5	20	N.D.	

Ms. Joann Ornelas 3990 Westerly Pl. Suite 210 Newport Beach, CA 92660 Client Project ID: Bldg 4, AOI4, BRC

Client Project #:

03/31/99

Sampled: Received: Analyzed:

03/31/99

Laboratory Sample #: 99030259 Laboratory Reference #: IES 10821

Reported:

04/01/99 04/01/99

POLYCHLORINATED BIPHENYL'S (EPA 8080)

Sample Description: Soil, AOI4A-B8-1-5.5

ANALYTE	ED BIPHENYL'S (EPA) CAS NUMBER	DETECTION LIMIT µg/kg	SAMPLE RESULTS μg/kg
PCB-1016	12674-11-2	20	N.D.
PCB-1221	111104-28-2	20	N.D.
PCB-1232	11141-16-5	20	N.D.
PCB-1242	53469-21-9	20	N.D.
PCB-1248	12672-29-6	20	N.D.
PCB-1254	11097-69-1	20	N.D.
PCB-1260	11096-82-5	20	N.D.

Ms. Joann Ornelas 3990 Westerly Pl. Suite 210 Newport Beach, CA 92660 Client Project ID: Bldg 4, AOI4, BRC

Client Project #:

 Sampled:
 03/31/99

 Received:
 03/31/99

 Analyzed:
 04/01/99

 Reported:
 04/01/99

Sample Description: Water, AOI4A-Rinsate-1 Laboratory Sample #: 99030260 Laboratory Reference #: IES 10821

POLYCHLORINATED BIPHENYL'S (EPA 8080)

ANALYTE	CAS NUMBER	DETECTION LIMIT μg/l	SAMPLE RESULTS µg/l	
PCB-1016	12674-11-2	5.0	N.D.	
PCB-1221	111104-28-2	5.0	N.D.	
PCB-1232	11141-16-5	5.0	N.D.	
PCB-1242	53469-21-9	5.0	N.D.	
PCB-1248	12672-29-6	5.0	N.D.	
PCB-1254	11097-69-1	5.0	N.D.	
PCB-1260	11096-82-5	5.0	N.D.	

Ms. Joann Ornelas 3990 Westerly Pl. Suite 210 Newport Beach, CA 92660

Client Project ID: Bldg 4, AOI4, BRC

Client Project #:

Sampled:

03/31/99

Sample Description: Soil, AOI4A-C1/B1,2,3-1-1 Laboratory Sample #: 99030261

Received:

03/31/99

Analyzed:

04/01/99

Laboratory Reference #: IES 10821

Reported:

04/01/99

POI YCHLORINATED BIPHENYL'S (EPA 8080)

ANALYTE	CAS NUMBER	DETECTION LIMIT μg/kg	SAMPLE RESULTS μg/kg
PCB-1016	12674-11-2	20	N.D.
PCB-1221	111104-28-2	20	N.D.
PCB-1232	11141-16-5	20	N.D.
PCB-1242	53469-21-9	20	N.D.
PCB-1248	12672-29-6	20	N.D.
PCB-1254	11097-69-1	20	N.D.
PCB-1260	11096-82-5	20	N.D.

Ms. Joann Ornelas 3990 Westerly Pl. Suite 210 Newport Beach, CA 92660

Client Project #:

Client Project ID: Bldg 4, AOI4, BRC

03/31/99

Sample Description: Soil, AOI4A-C2/B1,2,3-2-5

Sampled: Received:

03/31/99

Laboratory Sample #: 99030262 Laboratory Reference #: IES 10821 Analyzed: Reported:

04/01/99 04/01/99

POLYCHI ORINATED BIPHENYI 'S (EPA 8080)

ANALYTE	CAS NUMBER	DETECTION LIMIT μg/kg	SAMPLE RESULTS μg/kg
PCB-1016	12674-11-2	20	N.D.
PCB-1221	111104-28-2	20	N.D.
PCB-1232	11141-16-5	20	N.D.
PCB-1242	53469-21-9	20	N.D.
PCB-1248	12672-29-6	20	N.D.
PCB-1254	11097-69-1	20	N.D.
PCB-1260	11096-82-5	20	N.D.

Ms. Joann Ornelas 3990 Westerly Pl. Suite 210 Newport Beach, CA 92660 Client Project ID: Bldg 4, AOI4, BRC

Client Project #:

Sampled: 03/31/99 Received: 03/31/99

Analyzed: 04/01/99 **Reported:** 04/01/99

Sample Description: Soil, AOI4A-C3/B4,5,6-1-1 Laboratory Sample #: 99030263 Laboratory Reference #: IES 10821

POLYCHLORINATED BIPHENYL'S (EPA 8080)

ANALYTE	ED BIPHENYL'S (EPA) CAS NUMBER	DETECTION LIMIT μg/kg	SAMPLE RESULTS μg/kg	_
PCB-1016	12674-11-2	20	N.D.	
PCB-1221	111104-28-2	20	N.D.	
PCB-1232	11141-16-5	20	N.D.	
PCB-1242	53469-21-9	20	N.D.	
PCB-1248	12672-29-6	20	N.D.	
PCB-1254	11097-69-1	20	N.D.	
PCB-1260	11096-82-5	20	N.D.	

Laboratory Sample #: 99030264

Laboratory Reference #: IES 10821

Ms. Joann Ornelas 3990 Westerly Pl. Suite 210 Newport Beach, CA 92660 Client Project ID: Bldg 4, AOI4, BRC

Client Project #:

Sampled:03/31/99Received:03/31/99Analyzed:04/01/99Reported:04/01/99

POLYCHLORINATED BIPHENYL'S (EPA 8080)

Sample Description: Soil, AOI4A-C4/B4,5,6-2-5

ANALYTE	ED BIPHENYL'S (EPA) CAS NUMBER	DETECTION LIMIT µg/kg	SAMPLE RESULTS μg/kg	_
PCB-1016	12674-11-2	20	N.D.	
PCB-1221	111104-28-2	20	N.D.	
PCB-1232	11141-16-5	20	N.D.	
PCB-1242	53469-21-9	20	N.D.	
PCB-1248	12672-29-6	20	N.D.	
PCB-1254	11097-69-1	20	N.D.	
PCB-1260	11096-82-5	20	N.D.	

Ms. Joann Ornelas 3990 Westerly Pl. Suite 210 Newport Beach, CA 92660 Client Project ID: Bldg 4, AOI4, BRC

Client Project #:

Sampled:03/31/99Received:03/31/99Analyzed:04/01/99Reported:04/01/99

Sample Description: Soil, AOI4A-C5/B7,8,9-1-1 Laboratory Sample #: 99030265 Laboratory Reference #: IES 10821

POLYCHLORINATED BIPHENYL'S (EPA 8080)

ANALYTE	CAS NUMBER	DETECTION LIMIT µg/kg	SAMPLE RESULTS μg/kg	-
PCB-1016	12674-11-2	20	N.D.	
PCB-1221	111104-28-2	20	N.D.	
PCB-1232	11141-16-5	20	N.D.	
PCB-1242	53469-21-9	20	N.D.	
PCB-1248	12672-29-6	20	N.D.	
PCB-1254	11097-69-1	20	N.D.	
PCB-1260	11096-82-5	20	N.D.	

Ms. Joann Ornelas 3990 Westerly Pl. Suite 210 Newport Beach, CA 92660 Client Project ID: Bldg 4, AOI4, BRC

Client Project #:

Sampled: 03/31/99 **Received:** 03/31/99 **Analyzed:** 04/01/99

04/01/99

Laboratory Sample #: 99030266 Analyzed:
Laboratory Reference #: IES 10821 Reported:

POLYCHLORINATED BIPHENYL'S (EPA 8080)

Sample Description: Soil, AOI4A-C6/B7,8,9-2-5

ANALYTE	CAS NUMBER	DETECTION LIMIT μg/kg	SAMPLE RESULTS μg/kg	_
PCB-1016	12674-11-2	20	N.D.	
PCB-1221	111104-28-2	20	N.D.	
PCB-1232	11141-16-5	20	N.D.	
PCB-1242	53469-21-9	20	N.D.	
PCB-1248	12672-29-6	20	N.D.	
PCB-1254	11097-69-1	20	N.D.	
PCB-1260	11096-82-5	20	N.D.	

Ms. Joann Omelas Client Project ID: Bldg 4, AOI4, BRC

3990 Westerly PI. Suite 210 Client Project #: Newport Beach, CA 92660

 Sampled:
 03/31/99

 Sample Description:
 Soil, AOI4A-B10-1-0.5
 Received:
 03/31/99

 Laboratory Sample #:
 99030252
 Analyzed:
 04/01/99

 Laboratory Reference #:
 IES 10821
 Reported:
 04/01/99

CCR - METALS

ANALYTE	EPA METHOD	DETECTION LIMIT mg/kg	SAMPLE RESULTS mg/kg
Antimony	6010	5.0	N.D.
Arsenic	6010	1.0	3.8
Barium	6010	0.5	180
Beryllium	6010	0.5	0.69
Cadmium	6010	0.5	0.21
Chromium (Total)	6010	0.5	22
Chromium (VI)	7196	0.5	N.D.
Cobalt	6010	0.5	9.5
Copper	6010	0.5	23
Lead	6010	1.0	5.7
Mercury	7471	0.1	N.D.
Molybdenum	6010	1.0	N.D.
Nickel	6010	0.5	22
Selenium	6010	5.0	N.D.
Silver	6010	0.5	N.D.
Thallium	6010	5.0	N.D.
Vanadium	6010	0.5	43
Zinc	6010	0.5	49

Ms. Joann Ornelas 3990 Westerly Pl. Suite 210 Newport Beach, CA 92660

Client Project #:

Client Project ID: Bldg 4, AOI4, BRC

Sampled: 03/31/99 Received: 03/31/99 Analyzed: 04/01/99 Reported: 04/01/99

Sample Description: Soil, AOI4A-B10-2-5 Laboratory Sample #: 99030253 Laboratory Reference #: IES 10821

CCR - METALS

ANALYTE	EPA METHOD	DETECTION LIMIT mg/kg	SAMPLE RESULTS mg/kg
Antimony	6010	5.0	N.D.
Arsenic	6010	1.0	5.4
Barium	6010	0.5	160
Beryllium	6010	0.5	0.61
Cadmium	6010	0.5	N.D.
Chromium (Total)	6010	0.5	24
Chromium (VI)	7196	0.5	N.D.
Cobalt	6010	0.5	11
Copper	6010	0.5	32
Lead	6010	1.0	5.9
Mercury	7471	0.1	N.D.
Molybdenum	6010	1.0	N.D.
Nickel	6010	0.5	21
Selenium	6010	5.0	N.D.
Silver	6010	0.5	N.D.
Thallium	6010	5.0	N.D.
Vanadium	6010	0.5	51
Zinc	6010	0.5	63

Laboratory Sample #: 99030254

Laboratory Reference #: IES 10821

Sample Description: Soil, AOI4A-B10-3-10

Ms. Joann Ornelas

3990 Westerly PI. Suite 210 Newport Beach, CA 92660

Client Project ID: Bldg 4, AOI4, BRC

Client Project #:

Sampled:

03/31/99

Received:

03/31/99

Analyzed:

04/01/99

Reported:

04/01/99

CCR - METALS

ANALYTE	EPA METHOD	DETECTION LIMIT mg/kg	SAMPLE RESULTS mg/kg
Antimony	6010	5.0	N.D.
Arsenic	6010	1.0	6.3
Barium	6010	0.5	180
Beryllium	6010	0.5	0.68
Cadmium	6010	0.5	N.D.
Chromium (Total)	6010	0.5	25
Chromium (VI)	7196	0.5	N.D.
Cobalt	6010	0.5	12
Copper	6010	0.5	36
Lead	6010	1.0	6.5
Mercury	7471	0.1	N.D.
Molybdenum	6010	1.0	N.D.
Nickel	6010	0.5	21
Selenium	6010	5.0	N.D.
Silver	6010	0.5	N.D.
Thallium	6010	5.0	N.D.
Vanadium	6010	0.5	54
Zinc	6010	0.5	71

Ms. Joann Ornelas 3990 Westerly Pl. Suite 210

Newport Beach, CA 92660

Client Project ID: Bldg 4, AOI4, BRC

Client Project #:

Sampled: 03/31/99 03/31/99

Analyzed: 04/01/99 04/01/99

Sample Description: Soil, AOI4A-B10-4-15D Received: Laboratory Sample #: 99030255 Laboratory Reference #: IES 10821 Reported:

CCR - METALS

ANALYTE	EPA METHOD	DETECTION LIMIT mg/kg	SAMPLE RESULTS mg/kg
Antimony	6010	5.0	N.D.
Arsenic	6010	1.0	4.1
Barium	6010	0.5	170
Beryllium	6010	0.5	0.67
Cadmium	6010	0.5	N.D.
Chromium (Total)	6010	0.5	23
Chromium (VI)	7196	0.5	N.D.
Cobalt	6010	0.5	12
Copper	6010	0.5	32
Lead	6010	1.0	6.2
Mercury	7 47 1	0.1	N.D.
Molybdenum	6010	1.0	N.D.
Nickel	6010	0.5	19
Selenium	6010	5.0	N.D.
Silver	6010	0.5	N.D.
Thallium	6010	5.0	N.D.
Vanadium	6010	0.5	55
Zinc	6010	0.5	72

Ms. Joann Ornelas 3990 Westerly Pl. Suite 210 Newport Beach, CA 92660 Client Project ID: Bldg 4, AOI4, BRC

Client Project #:

 Sampled:
 03/31/99

 Received:
 03/31/99

 Analyzed:
 04/01/99

 Reported:
 04/01/99

Sample Description: Soil, AOI4A-B10-4-15 Laboratory Sample #: 99030256 Laboratory Reference #: IES 10821

CCR - METALS

ANALYTE	EPA METHOD	DETECTION LIMIT mg/kg	SAMPLE RESULTS mg/kg		
Antimony	6010	5.0	N.D.		
Arsenic	6010	1.0	4.1		
Barium	6010	0.5	160		
Beryllium	6010	0.5	0.71		
Cadmium	6010	0.5	N.D.		
Chromium (Total)	6010	0.5	25		
Chromium (VI)	7196	0.5	N.D.		
Cobalt	6010	0.5	11		
Copper	6010	0.5	42		
Lead	6010	1.0	6.4		
Mercury	7471	0.1	N.D.		
Molybdenum	6010	1.0	N.D.		
Nickel	6010	0.5	19		
Selenium	6010	5.0	N.D.		
Silver	6010	0.5	N.D.		
Thallium	6010	5.0	N.D.		
Vanadium	6010	0.5	54		
Zinc	6010	0.5	78		

Laboratory Reference #: IES 10821

Ms. Joann Ornelas 3990 Westerly Pl. Suite 210 Newport Beach, CA 92660

Client Project ID: Bldg 4, AOI4, BRC

Client Project #:

Sampled:

03/31/99

Sample Description: Water, AOI4A-Rinsate-1 Received: Laboratory Sample #: 99030260

03/31/99 Analyzed: 03/31-04/01/99

Reported:

04/01/99

CCR - METALS

EPA METHOD	DETECTION LIMIT mg/l	SAMPLE RESULTS mg/l
6010	0.1	N.D.
6010	0.1	N.D.
6010	0.01	N.D.
7196	0.01	N.D.
6010	0.01	N.D.
6010	0.01	N.D.
6010	0.05	N.D.
7471	0.002	N.D.
6010	0.05	N.D.
6010	0.01	N.D.
6010	0.1	N.D.
6010	0.01	N.D.
6010	0.1	N.D.
6010	0.01	N.D.
6010	0.01	N.D.
	6010 6010 6010 6010 6010 7196 6010 6010 7471 6010 6010 6010 6010 6010	mg/l 6010 0.1 6010 0.1 6010 0.01 6010 0.01 6010 0.01 6010 0.01 6010 0.01 6010 0.01 6010 0.05 7471 0.002 6010 0.01 6010 0.01 6010 0.01 6010 0.01 6010 0.01 6010 0.01 6010 0.01 6010 0.01 6010 0.01 6010 0.01 6010 0.01 6010 0.01 6010 0.01 6010 0.01 6010 0.01

Ms. Joann Ornelas 3990 Westerly Pl. Suite 210 Newport Beach, CA 92660

Sample Description: Soil, Water

Laboratory Reference #: IES 10821

Client Project ID: Bldg 4, AOI4, BRC

Client Project #:

Sampled:

03/31/99

Received: Analyzed: 03/31/99

03/31/99

Reported:

04/01/99

pH (EPA 9045)

LABORATORY SAMPLE NUMBER	CLIENT SAMPLE NUMBER	SAMPLE RESULTS
99030252	AOI4A-B10-1-0.5	8.2
99030253	AOI4A-B10-2-5	8.9
99030254	AOI4A-B10-3-10	8.9
99030255	AOI4A-B10-4-15D	8.7
99030256	AOI4A-B10-4-15	8.8
99030260	AOI4-Rinsate-1	8.4

Analysis: PCB 'S (EPA 8080)

Date of Analysis: 04/1/99

Laboratory Sample No :99030257 Laboratory Reference No : IES 10821

Analyte	R1	SP	MS	MSD	PR1	PR2	RPD
	(ppb)	(ppb)	(ppb)	(ppb)	%	%	%
PCB-1260	0.0	250	160	150	64	60	6

Definition of Terms:

R1 Results Of First Analysis

SP Spike Concentration Added to Sample

MS Matrix Spike Results

MSD Matrix Spike Duplicate Results

PR1 Percent Recovery Of MS: {(MS-R1) / SP} x100

PR2 Percent Recovery Of MSD: {(MSD-R1) / SP} x 100

RPD Relative Percent Difference: $\{(MS-MSD) / (MS+MSD)\} \times 100 \times 2$

Analysis: PCB 'S (EPA 8080)

Date of Analysis:04/01/99

Laboratory Sample No :OCA 100 Laboratory Reference No : IES 10821

Analyte	R1	SP	MS	MSD	PR1	PR2	RPD
	(ppb)	(ppb)	(ppb)	(ppb)	%	%	%
PCB-1260	0.0	20	14	13	70	65	7

Definition of Terms:

R1 Results Of First Analysis

SP Spike Concentration Added to Sample

MS Matrix Spike Results

MSD Matrix Spike Duplicate Results

PR1 Percent Recovery Of MS: {(MS-R1) / SP} x100

PR2 Percent Recovery Of MSD: {(MSD-R1) / SP} x 100

RPD Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

Analysis: Metals

Date of Analysis: 04/01/99

Laboratory Sample No: 99030252, OCA200

Laboratory Reference No: IES 10821

Analyte	R1	SP	MS	MSD	PR1	PR2	RPD
	(ppm)	(ppm)	(ppm)	(ppm)	%	%	%
Antimony	0.00	10.0	9.48	9.60	95	96	1
Arsenic	0.08	10.0	9.90	9.93	98	99	0
Barium	3.67	5.00	8.44	8.39	95	94	1
Beryllium	0.01	1.00	1.07	1.06	106	105	1
Cadmium	0.00	1.00	1.04	1.04	104	104	0
Chromium (Total)	0.44	1.00	1.42	1.41	98	97	1
Chromium (VI)	0.0	5.0	4.6	4.3	92	86	7
Cobalt	0.19	1.00	1.16	1.16	97	97	0
Copper	0.47	1.00	1.54	1.55	107	108	1
Lead	0.11	5.00	4.64	4.65	91	91	0
Mercury	0.00	1.00	0.96	0.99	96	99	3
Molybdenum	0.00	5.00	4.95	4.96	99	99	0
Nickel	0.43	5.00	5.46	5.45	101	100	0
Selenium	0.00	10.0	9.88	9.95	99	100	1
Silver	0.00	5.00	5.21	5.21	104	104	0
Thallium	0.00	10.0	8.91	10.1	89	101	13
Vanadium	0.86	5.00	5.78	5.77	98	98	0
Zinc	0.99	1.00	1.94	1.93	95	94	1

Definition of Terms:

R1 Results Of First Analysis

SP Spike Concentration Added to Sample

MS Matrix Spike Results

MSD Matrix Spike Duplicate Results

PR1 Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2 Percent Recovery Of MSD: {(MSD-R1) / SP} x 100

RPD Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

Analysis: Metals

Date of Analysis: 03/31-04/01/99

Laboratory Sample No: 99030236, 99030229, 99030250

Laboratory Reference No : IES 10821

Analyte	R1	SP	MS	MSD	PR1	PR2	RPD
	(ppm)	(ppm)	(ppm)	(ppm)	%	%	%
Antimony	0.00	0.10	0.103	0.105	103	105	2
Arsenic	0.00	0.10	0.107	0.104	107	104	3
Barium	0.03	0.100	0.129	0.128	99	98	1
Beryllium	0.00	0.100	0.104	0.103	104	103	1
Cadmium	0.00	0.100	0.096	0.095	96	95	1
Chromium (Total)	0.00	0.100	0.103	0.101	103	101	2
Chromium (VI)	0.00	0.50	0.50	0.50	100	100	0
Cobalt	0.00	0.100	0.094	0.093	94	93	1
Copper	0.000	0.100	0.105	0.104	105	104	1
Lead	0.00	0.10	0.096	0.092	96	92	4
Mercury	0.000	0.010	0.010	0.010	98	99	1
Molybdenum	0.00	0.10	0.114	0.114	114	114	0
Nickel	0.00	0.100	0.093	0.092	93	92	1
Selenium	0.00	0.10	0.108	0.105	108	105	3
Silver	0.00	0.100	0.099	0.098	99	98	1
Thallium	0.00	0.10	0.102	0.103	102	103	1
Vanadium	0.00	0.100	0.107	0.106	107	106	1
Zinc	0.00	0.100	0.098	0.097	98	97	1

Definition of Terms:

R1 Results Of First Analysis

SP Spike Concentration Added to Sample

MS Matrix Spike Results

MSD Matrix Spike Duplicate Results

PR1 Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2 Percent Recovery Of MSD: {(MSD-R1) / SP} x 100

RPD Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

Analysis Request and Chain of Custody Record

ORANGE COAST ANALYTICAL, INC.

(714) 832-0064, Fax (714) 832-0067 3002 Dow, Suite 532 Tustin, CA 92780

4620 E. Elwood, Suite 4 Phoenix, AZ 85040

(602) 736-0960 Fax (602) 736-0970

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Lab Job No:

ANBER REMARKS/PRECAUTIONS S.D. HMMD OTHER POLY HOLD HOLD HOLD HOLD HOLD HOLD HOLD Reporting Format: (check) ر * NORMAL RWQCB AMALYSIS/METHOD AEQUEST X X X × X × Date/Time: Date/Time: SOIL IS MIS NONE HN03 DONE PRES. CONTAINER 4 0 de PRDJECT NAME: BLOG 4, 4014, 8RC PROJECT INFORMATION SAMPLE MATRIX WATER Composité SOIL MATICA Method of Shipment: 901 1143 1226 12:33 1008 1 48 1246 1253 11 +3 1148 1318 1018 SAMPLE TIME 13:45 1312 Received By: Received By: 3-31-99 SAMPLED BY: ADDRESS: LDCATIDN: NUMBER: 57:91 NO. DF CONTAINERS 3/31/20 Date/Time: Date/Time: - 1ES **CUSTOMER INFORMATION** ADI4-C4/84,56-2-5 LAWSON AOI4-C2/81,2,3-2-5 40I4-85-2-9.5 AOI4-C3/84,5 6-1-AOI4-C1/81,2,3-1-2-12,5 1-5,5 8,5 10I4-88-2-9.5 3 S 9 - RINSATE SEND REPORT TO: J. CRNFLAS ADDRESS: 30 CORP PAKK AOT4-89-1-5 9 SAMPLE ID ACI4-86-1-4014-89-2 HARDING Total No. of Samples: 4014-88-コンノス A014-86 ACI4-87 ACI4-87 Relinquished By: Relinquished By: AOI 4 PHONE:

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pickup samples.

Sample Integrity: (check)

3-31-99

Date/Time:

intact

16,20

on Valkmin

Received For Lab By:

Date/Time:

Relinquished By:

Analysis Request and Chain of Custody Record

Tustin, CA 92780 m()

ORANGE COAST ANALYTICAL, INC. 3002 Dow, Suite 532

(602) 736-0960 Fax (602) 736-0970 (714) 832-0064, Fax (714) 832-0067

4620 E. Elwood, Suite 4 Phoenix, AZ 85040

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Lab Job No:

REMARKS/PRECAUTIONS ax results to 070H HOLD HOLD 4010 ロンクエ HOLD DIOH 4010 ANALYSIS/METHOD FIEOUEST × × × × × NONE PRES. 8 R C 6" Be455 CONTAINER TYPE 810G 4, 40T 4, PROJECT INFORMATION 2017 SAMPLE MATRIX Method of Shipment: 1059 1008 0933 0800 1035 1040 1018 0912 0927 2060 0810 0828 0831 SAMPLED BY: V, Mathus 2280 Received By: 3-31-99 SAMPLE Date PROJECT NAME: LOCATION ADDRESS: NUMBER NO. OF CONTAINERS COMPANY Harding Lawson Associates Date/Time: 0 **CUSTOMER INFORMATION** 5 01-5 LESI 810-4-15 S 0 S 5 h 5 1 -4014-85-1-5 0 FAX: 40I4-B2-2-8. AOI 4-810-2 AOI 4-810-3 4-018-4TOV SAMPLE ID 4014-83-1-55 CASEND REPORT TO: 4. Of nelas 810-1 ADDRESS: 30 CORP PORK Total No. of Samples: į ŧ <u>~</u> - 83 40I4-82 -84 AOI4-84 8 Relinquished By: 15 vine 4 4014-AOI 4 4 AOI4 4 TO Y TOY 404 PHONE

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pickup samples.

S.D. HMMD

Reporting Format: (check)

Date/Time:

NORMAL

OTHER

RWQCB

Date/Time:

Received By:

3/31/

then Mi

Relinquished By:

Date/Time:

(check)

Sample Integrity:

Date/Time: 3-3+71 16.25

Received For Lab By:

Date/Time:

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intact

Relinquished By:

η REMARKS/PRECAUTIONS ₽ S.D. HMMD OTHER Lab Job No: Page_ エア (check) Reporting Format: (check) 74 Sample Integrity: NORMAL RWQCB REQUIRED TAT: intact POW OFTS VIJ. Analysis Request and Chain of Custody Record ANALYSIS/METHOD AEOUEST HOD Date/Time: 3-5 + 2 PM EZY (602) 736-0960 Fax (602) 736-0970 NOWE Date/Time: Date/Time: PRES. PROJECT NAME BLOG 4, AOT 4, BRC CONTAINER 14R 4 02. 4620 E. Elwood, Suite 4 Phoenix, AZ 85040 PROJECT INFORMATION SAMPLE COMP. MATHUR Received For Lab By: Method of Shipment: E SAMPLE 3-31-99/1312 1318 Received By: Received By: ORANGE COAST ANALYTICAL, INC. SAMPLED BY: SAMPLE LOCATION (714) 832-0064, Fax (714) 832-0067 NUMBER: ADDRESS: 16:25 NO. OF CDNTAINERS 3-31-00 3002 Dow, Suite 532 Tustin, CA 92780 Date/Time: Date/Time: Date/Time: J. ORNELAS - 1551 LA1450N 4014-C6/87,8,9-2-5 **CUSTOMER INFORMATION** -1-6828 ゲムR K FAX: SAMPLE ID 0 CORP COMPANY: HARDING スンノング Total No. of Samples: A014-CS Relinquished By: Relinquished By: Relinquished By: SEND REPORT TO: ADDRESS: PHONE:

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